# Toxic Substances List - Schedule 1

Updated Schedule 1 as of November 21, 2012

1. Chlorobiphenyls that have the molecular formula $C_{12}H_{(10-n)}Cl_n$ in which "n" is greater than 2
2. Dodecachloropentacyclo [5.3.0.0$^{2,6}$.0$^{3,9}$.0$^{4,8}$] decane (Mirex)
3. Polybrominated Biphenyls that have the molecular formula $C_{12}H_{(10-n)}Br_n$ in which "n" is greater than 2
4. Chlorofluorocarbon: totally halogenated chlorofluorocarbons that have the molecular formula $C_nCl_xF_{(2n+2-x)}$
5. Polychlorinated Terphenyls that have a molecular formula $C_{18}H_{(14-n)}Cl_n$ in which "n" is greater than 2
6. Asbestos
7. Lead
8. Mercury and its compounds
9. Vinyl Chloride
10. Bromochlorodifluoromethane that has the molecular formula $CF_2BrCl$
11. Bromotrifluoromethane that has the molecular formula $CF_3Br$
12. Dibromotetrafluoroethane that has the molecular formula $C_2F_4Br_2$
13. Fuel containing toxic substances that are dangerous goods within the meaning of section 2 of the Transportation of Dangerous Goods Act, 1992 and that

    a. are neither normal components of the fuel nor additives designed to improve the characteristics or the performance of the fuel; or
    b. are normal components of the fuel or additives designed to improve the characteristics or performance of the fuels, but are present in quantities or concentrations greater than those generally accepted by industry standards

14. Dibenzo-para-dioxin that has the molecular formula of $C_{12}H_8O_2$
15. Dibenzofuran that has the molecular formula $C_{12}H_8O$
16. Polychlorinated dibenzo-para-dioxins that have the molecular formula $C_{12}H_{(8-n)}O_2Cl_n$ in which "n" is greater than 2
17. Polychlorinated dibenzofurans that have the molecular formula $C_{12}H_{(8-n)}OCl_n$ in which "n" is greater than 2
18. Tetrachloromethane (carbon tetrachloride) $CCl_4$
19. 1,1,1-trichloroethane (methyl chloroform) $CCl_3$-$CH_3$
20. Bromofluorocarbons other than those set out in items 10 to 12
21. Hydrobromofluorocarbons that have the molecular formula $C_nH_xF_yBr_{(2n+2-x-y)}$ in which 0
22. Methyl Bromide
23. Bis(Chloromethyl) ether that has the molecular formula $C_2H_4Cl_2O$
24. Chloromethyl methyl ether that has the molecular formula $C_2H_5ClO$
25. Hydrochlorofluorocarbons that have the molecular formula $C_nH_xF_yCl_{(2n+2-x-y)}$ in which 0<n<3
26. Benzene that has the molecular formula $C_6H_6$
27. (4-Chlorophenyl)cyclopropylmethanone,O-[(4-nitrophenyl)methyl]oxime that has the molecular formula $C_{17}H_{15}ClN_2O_3$
28. Inorganic arsenic compounds
29. Benzidine and benzidine dihydrochloride, that have the molecular formula $C_{12}H_{12}N_2$ and $C_{12}H_{12}N_2 \cdot 2HCl$, respectively

30. Bis(2-ethylhexyl)phthalate
31. Inorganic cadmium compounds
32. Chlorinated wastewater effluents
33. Hexavalent chromium compounds
34. Creosote-impregnated waste materials from creosote-contaminated sites
35. 3,3'-Dichlorobenzidine
36. 1,2-Dichloroethane
37. Dichloromethane
38. Effluents from pulp mills using bleaching
39. Hexachlorobenzene
40. Inorganic fluorides
41. Refractory ceramic fibre
42. Oxidic, sulphidic and soluble inorganic nickel compounds
43. Polycyclic aromatic hydrocarbons
44. Tetrachloroethylene
45. Trichloroethylene
46. Tributyltetradecylphosphonium chloride that has the molecular formula $C_{26}H_{56}P{\cdot}Cl$
47. Bromochloromethane, that has the molecular formula $CH_2BrCl$
48. Acetaldehyde, which has the molecular formula $C_2H_4O$
49. 1,3-Butadiene, which has the molecular formula $C_4H_6$
50. Acrylonitrile, which has the molecular formula $C_3H_3N$
51. Respirable particulate matter less than or equal to 10 microns
52. Acrolein, which has the molecular formula $C_3H_4O$
53. Ammonia dissolved in water
54. Nonylphenol and its ethoxylates
55. Effluents from textile mills that use wet processing
56. Inorganic Chloramines, which have the molecular formula $NH_nCl_{(3-n)}$, where n = 0, 1 or 2
57. Ethylene oxide, which has the molecular formula $H_2COCH_2$
58. Formaldehyde, which has the molecular formula $CH_2O$
59. *N*-Nitrosodimethylamine, which has the molecular formula $C_2H_6N_2O$
60. Gaseous Ammonia, which has the molecular formula $NH_3(g)$
61. Ozone, which has the molecular formula $O_3$
62. Nitric oxide, which has the molecular formula NO
63. Nitrogen dioxide, which has the molecular formula $NO_2$
64. Sulphur dioxide, which has the molecular formula $SO_2$
65. Volatile organic compounds that participate in atmospheric photochemical reactions, excluding the following:

    a. methane;
    b. ethane;
    c. methylene chloride (dichloromethane);
    d. 1,1,1-trichloroethane (methyl chloroform);
    e. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113);
    f. trichlorofluoromethane (CFC-11);
    g. dichlorodifluoromethane (CFC-12);
    h. chlorodifluoromethane (HCFC-22);
    i. trifluoromethane (HFC-23);
    j. 1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114);
    k. chloropentafluoroethane (CFC-115);
    l. 1,1,1-trifluoro-2,2-dichloroethane (HCFC-123);
    m. 1,1,1,2-tetrafluoroethane (HFC-134a);
    n. 1,1-dichloro-1-fluoroethane (HCFC-141b);
    o. 1-chloro-1,1-difluoroethane (HCFC-142b);
    p. 2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124);
    q. pentafluoroethane (HFC-125);
    r. 1,1,2,2-tetrafluoroethane (HFC-134);
    s. 1,1,1-trifluoroethane (HFC-143a);
    t. 1,1-difluoroethane (HFC-152a);
    u. parachlorobenzotrifluoride (PCBTF);

v. cyclic, branched or linear completely methylated siloxanes;
w. acetone;
x. perchloroethylene (tetrachloroethylene);
y. 3,3-dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca);
z. 1,3-dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb);
(*z*.1) 1,1,1,2,3,4,4,5,5,5-decafluoropentane (HFC 43-10mee);
(*z*.2) difluoromethane (HFC-32);
(*z*.3) ethylfluoride (HFC-161);
(*z*.4) 1,1,1,3,3,3-hexafluoropropane (HFC-236fa);
(*z*.5) 1,1,2,2,3-pentafluoropropane (HFC-245ca);
(*z*.6) 1,1,2,3,3-pentafluoropropane (HFC-245ea);
(*z*.7) 1,1,1,2,3-pentafluoropropane (HFC-245eb);
(*z*.8) 1,1,1,3,3-pentafluoropropane (HFC-245fa);
(*z*.9) 1,1,1,2,3,3-hexafluoropropane (HFC-236ea);
(*z*.10) 1,1,1,3,3-pentafluorobutane (HFC-365mfc);
(*z*.11) chlorofluoromethane (HCFC-31);
(*z*.12) 1-chloro-1-fluoroethane (HCFC-151a);
(*z*.13) 1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a);
(*z*.14) 1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxy-butane ($C_4F_9OCH_3$);
(*z*.15) 2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane ($(CF_3)_2CFCF_2OCH_3$);
(*z*.16) 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane ($C_4F_9OC_2H_5$);
(*z*.17) 2-(ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoropropane ($(CF_3)_2CFCF_2OC_2H_5$); and
(*z*.18) methyl acetate and perfluorocarbon compounds that fall into the following classes, namely,

i. cyclic, branched or linear completely fluorinated alkanes,
ii. cyclic, branched, or linear completely fluorinated ethers with no unsaturations,
iii. cyclic, branched or linear completely fluorinated tertiary amines with no unsaturations, or
iv. sulfur containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine.

66. Hexachlorobutadiene, which has the molecular formula $C_4Cl_6$
67. Particulate matter containing metals that is released in emissions from copper smelters or refineries, or from both
68. Particulate matter containing metals that is released in emissions from zinc plants
69. Dichlorodiphenyltrichloroethane (DDT), which has the molecular formula $C_{14}H_9Cl_5$
70. 2-butoxyethanol, which has the molecular formula $C_6H_{14}O_2$
71. 2-methoxyethanol, which has the molecular formula $C_3H_8O_2$
72. Tetrachlorobenzenes, which have the molecular formula $C_6H_2Cl_4$
73. Pentachlorobenzene, which has the molecular formula $C_6HCl_5$
74. Carbon dioxide, which has the molecular formula $CO_2$
75. Methane, which has the molecular formula $CH_4$
76. Nitrous oxide, which has the molecular formula $N_2O$
77. Hydrofluorocarbons that have the molecular formula $C_nH_xF_{(2n+2-x)}$ in which $0<n<6$
78. The following perfluorocarbons:

a. those that have the molecular formula $C_nF_{2n+2}$ in which $0<n<7$
b. octafluorocyclobutane, which has the molecular formula $C_4F_8$.

79. Sulphur hexafluoride, which has the molecular formula $SF_6$
80. Methanone, bis[4-(dimethylamino)phenyl]-, which has the molecular formula $C_{17}H_{20}N_2O$
81. 2-Butanone, oxime, which has the molecular formula $C_4H_9NO$
82. *n*-Butyl glycidyl ether, which has the molecular formula $C_7H_{14}O_2$
83. Polybrominated diphenyl ethers that have the molecular formula $C_{12}H_{(10-n)}Br_nO$ in which $4 \leq n \leq 10$
84. Perfluorooctane sulfonate and its salts
85. Compounds that contain one of the following groups: $C_8F_{17}SO_2$, $C_8F_{17}SO_3$ or $C_8F_{17}SO_2N$

86. Methyloxirane, which has the molecular formula $C_3H_6O$
87. Ethyloxirane, which has the molecular formula $C_4H_8O$
88. Naphthalene, which has the molecular formula $C_{10}H_8$
89. Toluene diisocyanates, which have the molecular formula $C_9H_6N_2O_2$
90. 1,2-Benzenediol, which has the molecular formula $C_6H_6O_2$
91. 1,4-Benzenediol, which has the molecular formula $C_6H_6O_2$
92. Hexane, 1,6-diisocyanato-, homopolymer, reaction products with alpha-fluoro-omega-2-hydroxyethyl-poly(difluoro- methylene), C16-20-branched alcohols and 1-octadecanol
93. 2-propenoic acid, 2-methyl-, hexadecyl ester, polymers with 2-hydroxyethyl methacrylate, gamma-omega-perfluoro-C10-16-alkyl acrylate and stearyl methacrylate
94. 2-propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with butyl 2-propenoate and 2,5-furandione, gamma-omega-perfluoro-C8-14-alkyl esters, tert-Bu benzenecarboperoxoate-initiated
95. 2-propen-1-ol reaction products with pentafluoroiodoethane tetrafluoroethylene telomer, dehydroiodinated, reaction products with epichlorohydrin and triethylenetetramine
96. Phenol, 4,4′ -(1-methylethylidene)bis-, which has the molecular formula $C_{15}H_{16}O_2$
97. Thiourea, which has the molecular formula $CH_4N_2S$
98. 1,3-Butadiene, 2-methyl-, which has the molecular formula $C_5H_8$
99. Oxirane, (chloromethyl)-, which has the molecular formula $C_3H_5ClO$
100. Colour Index Pigment Yellow 34
101. Colour Index Pigment Red 104
102. Cyclotetrasiloxane, octamethyl-, which has the molecular formula $C_8H_{24}O_4Si_4$
103. Phenol, 2,4,6-tris(1,1-dimethylethyl)-, which has the molecular formula $C_{18}H_{30}O$
104. Ethanol, 2-methoxy-, acetate, which has the molecular formula $C_5H_{10}O_3$
105. 1-Propanol, 2-methoxy-, which has the molecular formula $C_4H_{10}O_2$
106. 2-Naphthalenol, 1-[(4-methyl-2-nitrophenyl)azo]-, which has the molecular formula $C_{17}H_{13}N_3O_3$
107. Ethanol, 2-(2-methoxyethoxy)-, which has the molecular formula $C_5H_{12}O_3$
108. Sulfuric acid, diethyl ester, which has the molecular formula $C_4H_{10}O_4S$
109. Sulfuric acid, dimethyl ester, which has the molecular formula $C_2H_6O_4S$
110. Benzenamine, *N*-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene
111. 2-Propenamide, which has the molecular formula $C_3H_5NO$
112. Ethanol, 2-chloro-, phosphate (3:1), which has the molecular formula $C_6H_{12}Cl_3O_4P$
113. Tributyltins, which contain the grouping $(C_4H_9)_3Sn$
114. Tetrabutyltins, which have the molecular formula $(C_4H_9)_4Sn$
115. Benzene, (chloromethyl)-, which has the molecular formula $C_7H_7Cl$
116. Propane, 2-nitro-, which has the molecular formula $C_3H_7NO_2$
117. Benzene, 1-methyl-2-nitro-, which has the molecular formula $C_7H_7NO_2$
118. Phenol, 2,6-bis(1,1-dimethylethyl)-4-(1-methylpropyl)-, which has the molecular formula $C_{18}H_{30}O$
119. Methylium, [4-(dimethylamino)phenyl]bis[4-(ethylamino)3-methylphenyl]-, acetate, which has the molecular formula $C_{27}H_{34}N_3.C_2H_3O_2$
120. Chlorinated alkanes that have the molecular formula $C_nH_xCl_{(2n+2-x)}$ in which $10 \leq n \leq 20$
121. Benzene, 1,2-dimethoxy-4-(2-propenyl)-, which has the molecular formula $C_{11}H_{14}O_2$
122. Vanadium pentoxide, which has the molecular formula $V_2O_5$
123. Oxirane, 2,2′,2″,2‴-[1,2-ethanediylidenetetrakis (4,1-phenyleneoxymethylene)]tetrakis-, which has the molecular formula $C_{38}H_{38}O_8$
124. Bromic acid, potassium salt, which has the molecular formula $KBrO_3$
125. Polychlorinated naphthalenes, which have the molecular formula $C_{10}H_{8-n}Cl_n$ in which "n" is greater than 1
126. Hydrazine, which has the molecular formula $N_2H_4$
127. Hexabromocyclododecane, which has the molecular formula $C_{12}H_{18}Br_6$
128. Quinoline, which has the molecular formula $C_9H_7N$

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